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(54) OLIGONUCLEOTIDE FOR DETECTION OF  
BACILLUS THURINGIENSIS AND  
DETECTION USING THE SAME

of Bacillus thuringiensis, etc. This oligonucleotide is obtained by cloning gyrB gene amplified from Bacillus thuringiensis IAM 12077, Bacillus cereus JCM 2152, and Bacillus anthracis, determining their base sequence and selecting a specific base sequence to Bacillus thuringiensis.

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a new oligonucleotide having a specific nucleic acid sequence, consisting a nucleic acid capable of amplifying a nucleic acid sequence characteristic of Bacillus thuringiensis, and capable of distinguishing the above strain producing insectcidal proteins from other Bacillus and Bacillus anthracis so as to distinguish the above strain.

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SOLUTION: This oligonucleotide comprises a nucleic acid sequence obtained from the nucleic acid sequence of the formula and is a new oligonucleotide having at least one site capable of amplifying a nucleic acid sequence characteristic of Bacillus thuringiensis, and can distinguish the above strain from other Bacillus and strains other than Bacillus to identify the above strain, by specifically amplifying gyrB gene of Bacillus thuringiensis, therefore, useful for detection

CATGCTTCG CGAAATTTA CGTGTGGCG TATAAGCTT CTGGTGTTT GCGAGCTTT 60  
CGTCGTCG TTETTAATCC CTTATCACA GAAATGAGC TATTGTTACA TGCTGATGCC 120  
AAATCCATC ACCAAATA CCAGAGGT ATTCGGTG CGATTTAA AGTCATCGT 180

TTAGATAAGA TTATACAA TGAAGACTT CCTACATTA TTAACCGCGG TGTCAACAT 1140  
ATTCGGTGGC ACTTCATAT CGAAAGCA CCTATCAAA AGCTTATTA TATGACCGC 1200  
CGCGACGTCG AT 1212